

SECRET

101401

& T.M. OFFICE  
RECEIVED

RADAR TARGET IDENTIFICATION APPARATUS

EC 5 1971  
J. J. S.  
GROUP 220  
"SING & REV"

ABSTRACT OF THE DISCLOSURE

A radar target identification apparatus utilizing a pseudo-random digital code to modulate a target's return signal to include a two-dimensional range and cross range Doppler-coded return with a target's skin return and thereby identify friendly targets to the interrogating radar unit.

5

STATEMENT OF GOVERNMENT INTEREST

10

The invention described herein may be manufactured and used by or for the Government for governmental purposes without the payment of any royalty thereon.

BACKGROUND OF THE INVENTION

This invention pertains generally to radar systems and, in particular, to a radar target identification apparatus.

15

There has always been a need for day/night, all-weather surveillance of designated areas to locate and identify objects therein such as aircraft, ships, satellites, and to distinguish between friend or foe. In meeting such a need, especially during periods of poor visibility, it is a common military technique to employ radar to detect moving targets. A skilled radar observer can classify moving targets according to speed,

20

SECRET

NSIC Security Classification Guide

Classified by 2314 Date March 1, 1972

EXEMPT FROM GENERAL DECLASSIFICATION

SCHEDULE OF EXECUTIVE ORDER 11652

EXEMPTION CATEGORY 3

DECLASSIFY ON 31 December 1992

NATIONAL SECURITY INFORMATION  
Unauthorized Disclosure Subject  
to Criminal Sanctions

00001